



**Argo Smelter RI/FS Support Project
March 11, 2004 Meeting Minutes**

Time: 9:00 a.m. to 10:30 a.m.

Place: SRC Conference Room

Attendees:

Victor Ketellapper, USEPA, Region 8
Pat Courtney, USEPA, Region 8
Barbara O'Grady, CDPHE
Bill Brattin, SRC
Jennifer Walter, SRC
Paul Bergstrom, Knight Piésold
Bob Reisinger, Knight Piésold

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The meeting focused on the preliminary results of the risk assessment for exposure to soils and groundwater. SRC handed out copies of the results, which showed the following:

Soil

- For construction workers, at sample location 7, SB-0007-C showed non-cancer risks with a hazard quotient greater than 1 for the CTE and RME.
- For commercial workers, at sample location 7, SB-0007-C showed non-cancer risks with a hazard quotient greater than 1 for the CTE and RME and cancer risks above the threshold of 1E-4 for the RME.

Groundwater

- For future residents, at sample locations 4 and 7, GW-0001, GW-0002, GW-0003, and GW-0004 showed noncancer risks above the hazard quotient of 1 and/or cancer risks above the threshold of 1E-4 for the CTE and RME.
- For commercial workers, at sample locations 4 and 7, GW-0001, GW-0002, GW-0003, and GW-0004 showed noncancer risks above the hazard quotient of 1 and/or cancer risks above the threshold of 1E-4 for the CTE and RME.

The soil contamination at SB-7 appears to be fairly confined based on the results of surrounding sampling points. The contamination may be associated with an ore bin area of the former Argo Smelter. It was also noted that the contamination is restricted to a specific horizon; mixing of the soil horizon during excavation would likely result in contaminant levels below the level of concern.

Arsenic is the major cancer risk factor for groundwater. Non-cancer risk is associated with a number of metals, including arsenic, cadmium, manganese, thallium, vanadium, and zinc. It was noted that the groundwater present appears to be insufficient as a source of drinking water. It was also noted that the groundwater data appears to be consistent with the investigation of a plume to the east of I25 and north of I70 done 15 years ago.

Additional groundwater data is needed in order to meet the requirements of the State of Colorado to assess the possibility of off-site migration of groundwater. The group

decided that it would establish a series of permanent groundwater wells (three near the eastern boundary of the site (east of I25), three near the Best Western Hotel, and one at soil boring location 7, if possible) to monitor groundwater beginning this spring.

The QAPP/SAP will not need to be modified to perform the additional groundwater sampling. Knight Piésold will put together a well location map and sample frequency discussion for the additional sampling.

Regarding community awareness, SRC will draft language providing a summary of the interpretation of field sampling results to be included in a letter to individual landowners. The draft letter will be reviewed and approved by EPA before sending out to landowners. Knight Piésold will send out the letters, which will include laboratory results and soil boring logs for individual landowners. Letters to Craft (Sample Boring 4) and First Industrial (Sample Boring 7) will explain that contamination was found at their sites during the field sampling.

Schedule

SRC will complete the RI and risk assessment to the extent practical with the existing laboratory results. Knight Piésold will develop a well location map and sample frequency discussion as soon as possible. Knight Piésold will mail out letters describing the results of sampling to the individual landowners as soon as possible.

Other Items

Victor will check on the status of the contract modification with Knight Piésold.

Next Meeting

The next meeting will be set up in the future as required.